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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/819,250	03/27/2001	Arthur H. Ozaki	020699002900US 2094		
37490 75	590 02/10/2004		EXAMINER		
CARPENTER & KULAS, LLP			YENKE, BRIAN P		
1900 EMBARCADERO ROAD SUITE 109			ART UNIT	PAPER NUMBER	
PALO ALTO,	CA 94303		2614	7	
			DATE MAILED: 02/10/2004	, '	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary			250	OZAKI ET AL.				
			er	Art Unit				
	The MAN INO DATE AND		P. YENKE	2614				
Period fo	The MAILING DATE of this communica or Reply	tion appears on ti	ne cover sneet with the (correspondence ad	dress			
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA sions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) does not period for reply is specified above, the maximum statute re to reply within the set or extended period for reply will eply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no exation. ays, a reply within the story period will apply and by statute, cause the ap	event, however, may a reply be ting atutory minimum of thirty (30) day will expire SIX (6) MONTHS from oplication to become ABANDONE	nely filed s will be considered timels the mailing date of this co				
1)⊠	Responsive to communication(s) filed	on <u>05 December</u>	<u>2003</u> .					
2a)⊠	This action is FINAL . 2b)[☐ This action is	non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)⊠ 6)⊠ 7)□	 Claim(s) 1-6 and 14-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 5,6,14 and 15 is/are allowed. Claim(s) 1-4 and 16-19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
	on Papers		Toquitomonia.					
10)⊠	The specification is objected to by the E The drawing(s) filed on <u>05 December 2</u> Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to be	<u>003</u> is/are: a)⊠ n to the drawing(s) e correction is requ	be held in abeyance. Se ired if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CF	FR 1.121(d).			
Priority u	ınder 35 U.S.C. §§ 119 and 120							
a)[* S 13)	Acknowledgment is made of a claim fo All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of the application from the International see the attached detailed Office action for the cknowledgment is made of a claim for once a specific reference was included in 7 CFR 1.78. 1 The translation of the foreign languated converses the converse of the foreign languated in the first sentence was included in the first sentence was included in the first sentence.	cuments have be cuments have be the priority docun Bureau (PCT Right and Ist of the certification and the first sentence age provisional adomestic priority	en received. en received in Applicate nents have been received. le 17.2(a)). tified copies not receive under 35 U.S.C. § 119(se of the specification of application has been reconder 35 U.S.C. §§ 120	ion No ed in this National ed. e) (to a provisional r in an Application ceived.	l application) Data Sheet. a specific			
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449) Pape		4) Interview Summary 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

1. Applicant's arguments with respect to claims 1-4 and 16 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2a. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isoe et al., US 5,671,019 and applicant's admitted prior art (AAPA).

In considering claim 1,

- a) the claimed a first tuner... is met by 1st tuner 2 (Fig 3).
- b) the claimed a second tuner... is met by 2nd tuner 3 (Fig 3).
- c) the claimed a video switching subsytsem for receiving the first video formatted signal and the second video formatted signal and selectively outputting is met by switching circuit 4 and switch 13 (Fig 3)

However, Isoe, does not recite the color formats of the received or the displayed signal (limitations c, d regarding YC and YUV into RGB). Isoe discloses the reception of a composite video signal via tuners 2 and 3 (which can be YUV or YcrCb) and the

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reception of VTR signal via terminal 5 which is a component video signal which can either be YCrCB or RGB format.

Regarding the mixer for combining the YC and YUV signal into a combined RGB signal. It is noted by the examiner that the applicant's own disclosure states that a mixer/switch can be any video mixer/switch known to one skilled in the art, for mixing the YC and YUV signals into a combined RGB signal (page 5, line 2-3).

Therefore, it would have been obvious to one of ordinary skill in the art to modify, lsoe which discloses receiving broadcast channels and a VTR signal which vary in color formats, by converting the received signals into a color format which matches that of the display.

In considering claim 2,

the claimed a microprocessor for sending a timing signal is met by control processor 4 which controls the switching 4 and switch 13 (Fig 3), where the main is displayed in a predetermined main region and the 2nd signal is displayed in a ticker tape position and a smaller viewing portion of the display (Fig 4b).

However, Isoue does not disclose the types of color formats (i.e. Y/C and YUV).

Please see claim 1 above, for discussion on color formats.

In considering claim 3,

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the claimed wherein the first tuner receives and RF first image signal and the second tuner receives and RF second image signal is met by the 1st tuner (2) and 2nd tuner (3) which receive an RF signal via antenna 1 (Fig 3).

In considering claim 4,

- a) the claimed a picture-in-picture system for outputting a picture-in-picture signal is met by partial-screen image processor 8 (Fig 3)
- b) the claimed format switch is met by 1st compositing circuit 9 and 2nd compositing circuit 11 (Fig 3).

However, Isoue does not disclose the types of color formats (i.e. YUV). Please see claim 1 above, for discussion on color formats.

2b. Claims 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isoe et al., US 5,671,019 in view of Rinaldi et al., US 6,327,002.

In considering claim 16,

Isoe discloses a PIP system which can receive a composite video signal via tuners 2 and 3 (which can be YUV or YcrCb) and a VTR signal via terminal 5 which is a component video signal which can either be YCrCB or RGB format.

Although the conversion of one color format to another (i.e. YUV to RGB) is conventional in the art, the examiner incorporates Rinaldi et al., US 6,327,002, which discloses receiving an input signal either of the NTSC, PAL or SECAM standard (which

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includes the YUV, YcrCb color formats) and converting the receiving signal into a desired RGB (Fig 1), YUV (Fig 2) or YC formats (Fig 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Isoe which discloses a PIP system which receives broadcast channels and a VTR signal which may vary in color formats, with Rinaldi, by converting the received signals into a color format which matches that of the display or the particular output (YUV, Y/C or RGB).

In considering claim 17,

the claimed a microprocessor for sending a timing signal is met by control processor 4 which controls the switching 4 and switch 13 (Fig 3), where the main is displayed in a predetermined main region and the 2nd signal is displayed in a ticker tape position and a smaller viewing portion of the display (Fig 4b).

However, Isoue does not disclose the types of color formats (i.e. Y/C and YUV).

Please see claim 1 above, for discussion on color formats.

In considering claim 18,

the claimed wherein the first tuner receives and RF first image signal and the second tuner receives and RF second image signal is met by the 1st tuner (2) and 2nd tuner (3) which receive an RF signal via antenna 1 (Fig 3).

In considering claim 19,

a) the claimed a picture-in-picture system for outputting a picture-in-picture signal is met by partial-screen image processor 8 (Fig 3)

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b) the claimed format switch is met by 1st compositing circuit 9 and 2nd compositing circuit 11 (Fig 3).

However, Isoue does not disclose the types of color formats (i.e. YUV). Please see claim 1 above, for discussion on color formats.

Allowable Subject Matter

3. Claim 5-6 and 14-15 are allowed.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure, please see newly cited references on attached Form PTO-892.
- 5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian Yenke whose telephone number is (703) 305-

9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Supervisor, John W. Miller, can be reached at (703)305-4795.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the

Technology Center 2600 Customer Service Office whose telephone number is

(703)305-HELP.

B.P.Y

January 30, 2004

JOHN MILLER

WPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600